

We Claim:

1. A power supply for an electrical appliance, comprising:

a female connector for receiving an electrical plug and the power supply can be removed from the electrical appliance for installation or servicing purposes; and

an insertion protection device for preventing insertion of the electrical plug into said female connector when the power supply is not installed in a correct location of the electrical appliance.

2. The power supply according to claim 1, further comprises a mounting rack, and said insertion protection device is a slide disposed in said mounting rack.

3. The power supply according to claim 2, wherein said slide at least partially covers said female connector when said slide is in a locked state.

4. The power supply according to claim 3, further comprising a spring acting on said slide for pushing said slide into a locking position, in which said female connector is at least partially covered by said slide.

5. The power supply according to claim 4, wherein said slide can be moved from the locking position only by applying force to said spring at two different positions.

6. The power supply according to claim 5, wherein the power supply can be inserted via said mounting rack into a holder of the electrical appliance, and said slide is automatically released from the locking position by an insertion process.

7. The power supply according to claim 6, wherein the holder has a surface for acting on said spring for unlocking and, furthermore has an edge for pushing said slide out of the locking position.

8. The power supply according to claim 1, wherein said insertion protection device prevents removal of the power supply from the electrical appliance when the electrical plug is inserted in said female connector.

9. The power supply according to claim 1, wherein the power supply is used in a computer.